

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-000626**Date Inspected:** 14-May-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 0**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 12**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai

Quality Control Contact:	ABF Paint Supervisor William (Bill) Oak			Quality Control Present:	Yes	No
Material transfer:	Yes	No	N/A	Sampled Items:	Yes	No N/A
Stock Transfer:	Yes	No	N/A	OK to Cut:	Yes	No N/A
Rebar Test Witness:	Yes	No	N/A	Delayed/Cancelled:	Yes	No N/A
Other:	Surface Preparation and Coatings Application					
Bridge No:	34-0006			Component:	OBG 5CW, CB1, Lift 3&4, Tower L1E	
Bid Item:	77,78,79,80			Lot No:	B226	

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Donald Jordan arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

The following inspections were performed by Caltrans QA Coatings Inspector Jordan, American Bridge/Fluor Enterprises, a JV (ABF) Paint Supervisor William (Bill) Oak, ABF QC Zhou Qun Song (Joe), ABF QC David Duon, ABF QC Shi Zhaoyuan (Stone), ABF QC Zhou Wei, International Paint (IP) Onsite Technical Services Engineer (OTSE) Peng Zi Li, IP OTSE Alpha Chen, Zhenhua Port Machinery Company, LTD (ZPMC) QC Manager Xia Yong, ZPMC QC Zhang Diang, ZPMC QC Dong Yao Fei and ZPMC QC Guo Wan Li.

Caltrans QA Coatings Inspectors received Notices of Inspection for to attend joint inspections with ABF and ZPMC QC for surface preparation by abrasive blasting.

OBG 5CW, CB1

The internal ceiling and floor beam areas of OBG 5CW was abrasive blasted and inspected. The external surface of CB1 was abrasive blasted and inspected.

A few spots of grinding were required to remove arc strikes, sharp edges, dings in the substrate that left sharp edges sticking up, and edge conditioning required by the Project Special Provisions Section 10-1.69. After the grinding was completed the surfaces were re-blasted to meet the SSPC SP10 Contract requirements. Surface profile Testex Tape was used by ZPMC QC personnel to record the blast profile. The Testex tape was measured using a dial micrometer. The readings were within the contract requirements of 40 and 86 microns. Ambient conditions were within Contract required parameters. After the base metal was prepared to meet the contract

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requirements, Interzinc 22 primer was applied within the specified 8 hour window after the start of abrasive blasting. The coating was mixed under the supervision of Caltrans QA Coatings Inspector Jordan, International Paint's Onsite Technical Services Engineer Peng Zi Li and QC personnel representing ABF and ZPMC.

Tower

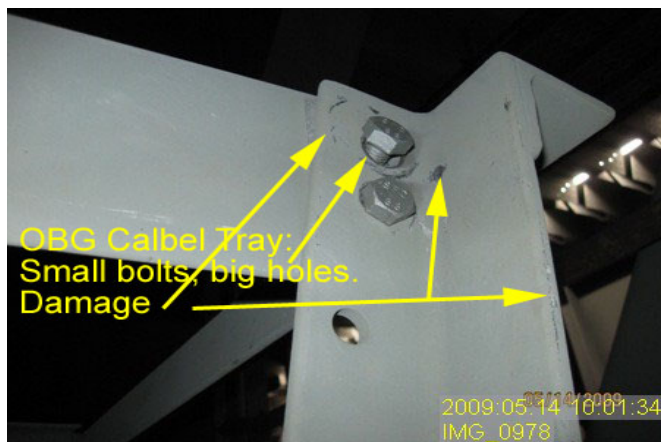
Caltrans QA Coatings Inspectors received Notices of Inspection for to attend joint inspections with ABF and ZPMC QC for Tower Lift 1 East. The segment is in the blast shop. Scaffolding is being erected around the segment for access. A degreasing inspection was performed. Most of the scaffolding connection components were soaked in oil prior to installing the scaffolding. The contractor was advised to be aware that the ricocheting abrasive may get contaminated by the oil on the connections. Some of the heavier oil was wiped off. The supports under the tower were covered in grease and oil. The stands are being covered with tarp material. Cables binding the tower segment to transport supports are to be removed. The cables are coated in grease.

OBG Trial Assembly

The contractor called for an inspection of weld joints in the trial assembly area of the OBG's the inspection was postponed until this afternoon. The inspection will be performed by Caltrans QA Coatings Inspector James Lumley.

Caltrans QA Coatings Inspector Jordan observed several items in the trial assembly area that have received the final coat of primer. The final primer coating on these items have been damaged. The contractor has been informed.

Fabrication on assembled components of the OBG's are not complete. Coating damage requiring re-blast is expected.



Summary of Conversations:

There were no relevant conversations on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh (China) +8613472477571, who represents the Office of Structural Materials for your project.

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Inspected By:	Jordan,Don	Quality Assurance Inspector
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Reviewed By:	Carreon,Albert	QA Reviewer
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